

**ABSTRACT OF THE DISCLOSURE**

The present invention provides novel polynucleotides encoding HGPRBMY11 polypeptides, fragments and homologues thereof. The present invention also provides

5 polynucleotides encoding variants of the HGPRBMY11 polypeptide, HGPRBMY11v1 and HGPRBMY11v2. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these

10 novel HGPRBMY11, HGPRBMY11v1, and/or HGPRBMY11v2 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly cardiovascular diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.